FIG. 1

Code Group Name	Curr. RD- abcdei fghj	Curr. RD+ abcdei fghj	Decoded Signals Description
Multiplex Section Termination (MST) Mode			
K28.5	001111 1010	110000 0101	IJ0J1='b1, IPL = 'b0 Transport frame alignment
K.28.4-	001111 0010	-	IPAIS='b1' High-order path AIS
High-Order Path Termination (HPT) Mode			
K28.0-	001111 0100	-	IPL = 'b0, High-order path H3 byte, no negative justification event
K28.0+	-	110000 1011	IPL = 'b0 High-order path positive stuff opportunity byte, positive justification event
K28.6	001111 0110	110000 1001	IJ1='b1', IPL = 'b1 High-order path frame alignment

FIGURE 1A

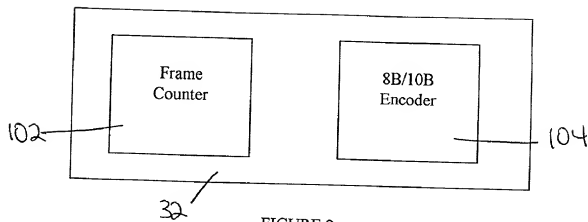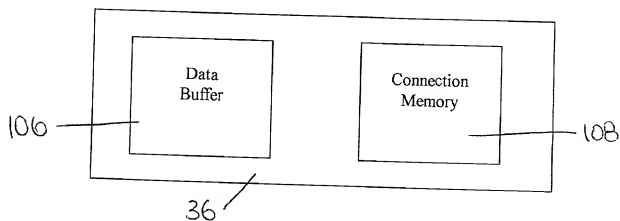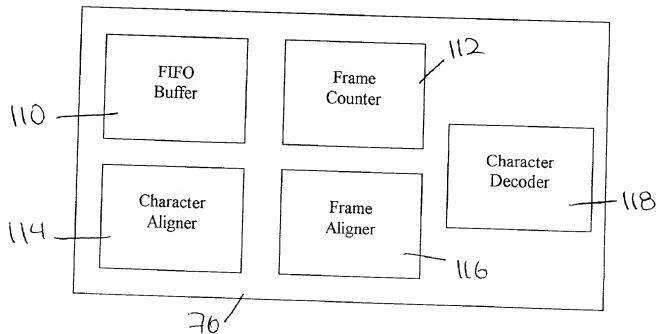| Code Group Name	Curr. RD- abcdei fghj	Curr. RD+ abcdei fghj	Decoded Signals Description
Low-Order Path Termination (LPT) Mode			
K.28.4+	-	110000 1101	ITAIS='b1' Low-order path AIS ID[7:0] = 'hFF
K27.7-	110110 1000	-	ITV5 = 'b1,, ITPL = 'b1 Low order path frame alignment ID[0,4] = ERDI[1:0] = 'b00, ID[5] = REI = 'b0
K27.7+	-	001001 0111	ITV5 = 'b1, ITPL = 'b1 Low order path frame alignment ID[0,4] = ERDI[1:0] = 'b00, ID[5] = REI = 'b1 ID[7,6,3:1] = 'b00000
K28.7-	001111 1000	-	ITV5 = 'b1, ITPL = 'b1 Low order path frame alignment ID[0,4] = ERDI[1:0] = 'b01, ID[5] = REI = 'b0 ID[7,6,3:1] = 'b00000
K28.7+	-	110000 0111	ITV5 = 'b1, ITPL = 'b1 Low order path frame alignment ID[0,4] = ERDI[1:0] = 'b01. ID[5] = REI = 'b1 ID[7,6,3:1] = 'b00000
K29.7-	101110 1000	-	ITV5 = 'b1, ITPL = 'b1 Low order path frame alignment ID[0,4] = ERDI[1:0] = 'b10, ID[5] = REI = 'b0 ID[7,6,3:1] = 'b00000
K29.7+	-	010001 0111	ITV5 = 'b1, ITPL = 'b1 Low order path frame alignment ID[0,4] = ERDI[1:0] = 'b10, ID[5] = REI = 'b1 ID[7,6,3:1] = 'b00000
K30.7-	011110 1000	-	ITV5 = 'b1, ITPL = 'b1 Low order path frame alignment ID[0,4] = ERDI[1:0] = 'b11, ID[5] = REI = 'b0 ID[7,6,3:1] = 'b00000
K30.7+	-	100001 0111	ITV5 = 'b1, ITPL = 'b1 Low order path frame alignment ID[0,4] = ERDI[1:0] = 'b11. ID[5] = REI = 'b1 ID[7,6,3·1] = 'b00000
K23.7-	111010 1000	000101 0111	ITPL = 0 Non low-order path payload overhead bytes (RSOH, MSOH, POH, R, V1, V2, V3, V4) ID[7:0] = 'h00

FIGURE 1B

```
┌─────────────────────────────────────────────────────────┐
│   ┌─────────────────┐           ┌─────────────────┐      │
│   │     Frame       │           │    8B/10B       │      │
│   │    Counter      │           │    Encoder      │      │
│   │                 │           │                 │      │
│   └─────────────────┘           └─────────────────┘      │
│        102                            104                 │
└─────────────────────────────────────────────────────────┘
                      32
```

FIGURE 2

```
┌─────────────────────────────────────────────────────────┐
│   ┌─────────────────┐           ┌─────────────────┐      │
│   │     Data        │           │   Connection    │      │
│   │    Buffer       │           │    Memory       │      │
│   │                 │           │                 │      │
│   └─────────────────┘           └─────────────────┘      │
│        106                            108                 │
└─────────────────────────────────────────────────────────┘
                      36
```

FIGURE 3

```
┌─────────────────────────────────────────────────────────┐
│  ┌───────────┐      ┌───────────┐                        │
│  │   FIFO    │      │   Frame   │         112            │
│  │  Buffer   │      │  Counter  │                        │
│  └───────────┘      └───────────┘     ┌───────────┐      │
│     110                               │ Character │      │
│                                       │  Decoder  │      │
│  ┌───────────┐      ┌───────────┐     └───────────┘      │
│  │ Character │      │   Frame   │          118           │
│  │  Aligner  │      │  Aligner  │                        │
│  └───────────┘      └───────────┘                        │
│     114                  116                             │
└─────────────────────────────────────────────────────────┘
                  70
```

FIGURE 4

Code Group Name	Curr. RD− abcdei fghj	Curr. RD+ abcdei fghj	Decoded Signals Description
Multiplex Section Termination (MST) Mode			
K28.5	001111 0100	110000 1011	OJ0='b1' Transport frame alignment OD[7:0] = 'h01
K.28.4−	001111 0010	-	OPAIS='b1' High-order path AIS OD[7:0] = 'hFF
High-Order Path Termination (HPT) Mode			
K28.0−	001111 0100	-	OPL = 'b0, High-order path H3 byte, no negative justification event OD[7:0] = 'h00
K28.0+	-	110000 1011	OPL = 'b0 High-order path PSO byte, positive justification event OD[7:0] = 'h00
K28.6	001111 0110	110000 1001	OJ1='b1' High-order path frame alignment OD[7:0] = 'h00

FIGURE 5A

Code Group Name	Curr. RD− abcdei fghj	Curr. RD+ abcdei fghj	Decoded Signals Description
Low-Order Path Termination (LPT) Mode			
K27.7−	110110 1000	-	OTV5 = 'b1,, OTPL = 'b1 Low order path frame alignment OD[0,4] = ERDI[1:0] = 'b00, OD[5] = REI = 'b0
K27.7+	-	001001 0111	OTV5 = 'b1, OTPL = 'b1 Low order path frame alignment OD[0,4] = ERDI[1:0] = 'b00, OD[5] = REI = 'b1 OD[7,6,3:1] = 'b00000
K28.7−	001111 1000	-	OTV5 = 'b1, OTPL = 'b1 Low order path frame alignment OD[0,4] = ERDI[1:0] = 'b01, OD[5] = REI = 'b0 OD[7,6,3:1] = 'b00000
K28.7+	-	110000 0111	OTV5 = 'b1, OTPL = 'b1 Low order path frame alignment OD[0,4] = ERDI[1:0] = 'b01, OD[5] = REI = 'b1 OD[7,6,3:1] = 'b00000
K29.7−	101110 1000	-	OTV5 = 'b1, OTPL = 'b1 Low order path frame alignment OD[0,4] = ERDI[1:0] = 'b10, OD[5] = REI = 'b0 OD[7,6,3:1] = 'b00000
K29.7+	-	010001 0111	OTV5 = 'b1, OTPL = 'b1 Low order path frame alignment OD[0,4] = ERDI[1:0] = 'b10, OD[5] = REI = 'b1 OD[7,6,3:1] = 'b00000
K30.7−	011110 1000	-	OTV5 = 'b1, OTPL = 'b1 Low order path frame alignment OD[0,4] = ERDI[1:0] = 'b11, OD[5] = REI = 'b0 OD[7,6,3:1] = 'b00000
K30.7+	-	100001 0111	OTV5 = 'b1, OTPL = 'b1 Low order path frame alignment OD[0,4] = ERDI[1:0] = 'b11, OD[5] = REI = 'b1 OD[7,6,3:1] = 'b00000
K23 7−	111010 1000	-	OTPL = 0 Non low-order path payload bytes (RSOH. MSOH, POH, R, V1, V2, V3, V4) OD[7:0] = 'h00
K.28.4+	-	110000 1101	OTAIS='b1' Low-order path AIS OD[7:0] = 'hFF

FIGURE 5B